

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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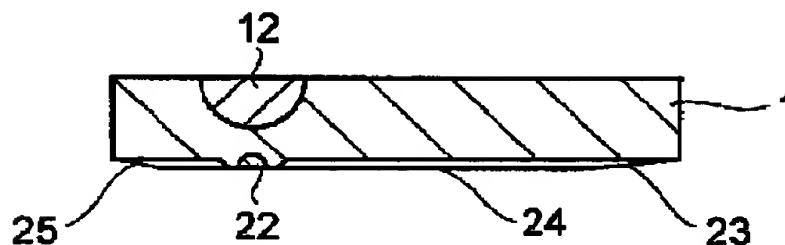
APPLICATION DATE : 03-09-98  
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APPLICANT : TDK CORP;

INVENTOR : YAMAOKA HIDEHIKO;

INT.CL. : G11B 7/135

TITLE : OPTICAL HEAD



ABSTRACT : PROBLEM TO BE SOLVED: To realize accuracy improvement, mass-production improvement and miniaturization when a solid emerging lens is used.

SOLUTION: This optical head is provided with an objective lens 12 for converging illuminating lights directed to an optical information medium, and a solid emerging lens 22 installed between the optical information medium and the objective lens to convert a practical numeral aperture. In this case, the objective lens 12 and/or the solid emerging lens 22 is formed by changing the refractive index of a part of a glass substrate 1 by an ion exchange.

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